Optoelectronics

CNT Device Pact

Nano-Proprietary, Inc., subsidiary, Applied Nanotech, Inc., has made a license agreement with Shimane Masuda Electronics, Co., Ltd. (SME) for prospective initial product to be made based on carbon nanotube electron emission-based lighting. SME has the non-exclusive right to manufacture carbon cold cathode products in Japan and to sell those products in Asia.

Web: www.nano-proprietary.com

LED Light Bulbs

LEDtronics of Torrance, CA, USA, recently launched its TRF-G30 series of LED bulbs. The bulbs have a globe covering that allows the LEDs to shine in multiple directions. With its 25 mm Edison screw base attachment, the company says the bulb has many applications, such as decorative lighting, lamps, tollbooths, low-level beacon warning lights, receiving docks, task lighting, cabinets, displays, concealed lighting, and store shelf lighting.

Web: www.ledtronics.com

LED Light Therapy

A versatile multi-treatment LED instrument from Photo Therapeutics, the pioneer of photodynamic therapy, is changing how dermatology and plastic surgery patients are treated. Omnilux has selectable wavelengths and light intensity, to activate cellular responses in the mitochondria to naturally correct a wide array of skin disorders. Over 2,200 physicians worldwide are now using Omnilux Light Therapy and the Omnilux light trio is an FDA-approved medical device.

Web: www.phototherapeutics.com

LCDs With LED Backlights From Kyocera

Kyocera Industrial Ceramics Corp., announced that global parent Kyocera Corporation has released a new line of LCDs that feature a unique LED backlighting system instead of conventional cold-cathode fluorescent lamps (CCFLs).

The new LCD products, which Kyocera is now shipping, are designed to meet a wide range of industrial display applications, including manufacturing controls, test and measurement equipment, and medical systems.

The new backlights are available in STN, CSTN, and TFT models, introduced first in 4.7 and 5.7 in diagonal modules. Introduction of 3.5, 6.2, 7.5, 8.9 and 10.4 in modules will follow. Kyocera expects to be shipping 30,000 units per month by March 2007.

Web: **americas.kyocera.com/kicc/lcd**

CCD-Optimized High Power IR SMD LED

American Bright Optoelectronics introduced the BIR-PP8-DSS-1 NovaLED IR emitter that has been designed specifically for CCD based imaging applications such as machine vision, security, military, night vision and advanced automotive applications.

The miniature package delivers one of the industry's greatest outputs at 45 mW/sr at 500 mA at the industry's widest viewing angle for such a device: 120°. Measuring a diminutive 0.236 [6.0 mm] × 0.236 [6.0 mm] square and standing only 0.060 [1.5 mm] high, the BIR series is also ideally suited for compact, portable and handheld devices.

Web: **www.americanbright-led.com**

Cascade Design Deal With Oil Giants

Scottish laser technology group CASCADE Technologies has signed a £4m deal to design and supply emissions monitoring systems for BP Marine. The latter has invested in Cascade Technologies to gain access to the Stirling company's quantum cascade laser (QCL) technology, a system for detecting drugs, explosives and hazardous compounds. The three-year deal with BP involves Cascade design QCL-based supply emissions monitoring systems for use in the marine industry.

Secondly, the DTI, under the UK Technology Programme, has awarded funding to a consortium comprising Shell Global Solutions, Compound Semiconductor Technologies Global of Glasgow, Scotland, Cascade Technologies Ltd of Stirling, Scotland, and the Universities of Sheffield and Glasgow towards the £2m project QCSense ("Novel quantum cascade lasers for ultrasensitive trace sensing of gases"), which was formed in late July.

Thirdly, Cascade Technologies, which specializes in laser systems for chemical analysis, signed a licensing deal with Lucent Technologies. QCL, invented by Bell Labs a decade ago, has been adapted for commercial use by Irwin Norman at Strathclyde University.

Web: **www.compoundsemi.co.uk**

Firecomms Ethernet FOT for POF

Cork, Ireland, based Firecomms Ltd., announced that its RCLED-based 650 nm Fast Ethernet FOT (fibre optic transceiver) is the light source chosen by Netopia for its next-generation high-performance MiAVo residential gateway to deliver bandwidth-intensive, QoS-reliant services such as IPTV, video and VoIP over plastic optical fibre (POF).

Firecomms' fully integrated transceiver RCLED-based 650 nm FOT and highly-sensitive receiver FOT have been designed into the POF port on the new MiAVo VDSL2 service provider gateway. Based on Firecomms' proprietary technology for Resonant Cavity LEDs, the Fast Ethernet FOT operates at 100 Mbps for 100 m, making it optimal for high-speed home, office, and industrial networks.

"With its lower bit error rates and longer reach, Firecomms' FOT enables customers to take advantage of the inherent benefits of POF in emerging IPTV applications," says Firecomms CEO Declan O'Mahoney. "Its flexibility and ease of installation makes POF a cost-effective alternative over traditional networks."

"By leveraging Firecomms' new Fast Ethernet FOT, Netopia is able to broaden its portfolio to deliver IPTV, video, voice and data over POF with the highest quality of service and the lowest cost of deployment," says Ken Haase, vice president of product management at Netopia. "We're excited to showcase not only the MiAVo with the integrated Firecomms transceiver, but also an example of how plastic optical fibre changes the rules for premises wiring."

Web: **www.firecomms.com**